

MATH 457. HONOURS ALGEBRA 4.

Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Winter 2026

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Description

Representations of finite groups. Maschke's theorem. Schur's lemma. Characters, their orthogonality, and character tables. Field extensions. Finite and cyclotomic fields. Galois extensions and Galois groups. The fundamental theorem of Galois theory. Solvability by radicals.

- Prerequisite: (MATH 236 or MATH 251) and MATH 456
- Restriction(s): Not open to students who have taken MATH 371.

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